

Corn Herbicide Showcase with Atrazine

Janesville, WI 2024

Trial Information

Trial Sponsor(s): Albaugh, BASF, Bayer, Syngenta, UPL

Objective: Evaluate multiple 1- and 2-pass corn herbicide programs containing atrazine for giant ragweed control and crop safety

Crop: Corn

Hybrid: 202-24STX RIB

Weed species (pressure): Giant ragweed (high-very high)

Herbicide Application(s): PRE – 5/6
EPOST – 5/29 (V2/V3 corn)
POST – 6/6 (V5 corn)

For the full report see trial #24-ROK-CN03 in the [2024 Wisconsin Weed Science Research Report](#)



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Trt #	Herbicide (rate acre ⁻¹)	Giant Ragweed (%)				Yield ^b bu acre ⁻¹	
		5/28	6/6	6/21	10/18		
1	Untreated Check	0	0	0	0	16 d	
One-Pass – PRE (5/6)							
2	Storen (2.4 qt) + AAtrex (1.5 pt)	89	89	81	73	192 a	
3	TriVolt (20 oz) + AAtrex (2 pt)	79	82	70	44	110 c	
4	Harness MAX (64 oz) + AAtrex (2 pt)	90	88	75	62	161 b	
One-Pass – EPOST (5/29)		EPOST					
5	Acuron GT (3.75 pt) + AAtrex (1 pt) + NIS (0.25% v/v) + AMS ^c	0	96	93	97	232 a	
6	Priority MA (3.5 qt) + Roundup PM3 (30 oz) + NIS (0.25% v/v) + AMS ^c	0	98	93	98	228 a	
7	Priority S MA (3.5 qt) + Roundup PM3 (30 oz) + NIS (0.25% v/v) + AMS ^c	0	97	94	97	222 a	
Two-Pass – PRE (5/6) fb POST (6/6)		POST					
8	Storen (1.3 qt) + AAtrex (0.75 pt) fb	76	74	96	100	237 a	
	Storen (1.1 qt) + AAtrex (0.75 pt) + Roundup PM3 (26 oz) + AMS ^c						
9	Acuron (1.5 qt) fb	78	77	95	99	236 a	
	Halex GT (3.6 pt) + AAtrex (0.75 pt) + NIS (0.25% v/v) + AMS ^c						
10	Lumax EZ (1.5 qt) fb	64	66	96	100	233 a	
	Acuron GT (3.75 pt) + AAtrex (0.75 pt) + NIS (0.25% v/v) + AMS ^c						
11	Callisto (3 oz) + AAtrex (0.75 pt) fb	70	68	96	100	229 a	
	Acuron GT (3.75 pt) + AAtrex (0.75 pt) + NIS (0.25% v/v) + AMS ^c						
12	Harness (2 pt) + AAtrex (2 pt) fb	82	83	97	99	230 a	
	Laudis (3 oz) + DiFlexx (8 oz) + RU PM3 (30 oz) + MSO (1%) + Class Act Ridion (1%)						
13	TripleFlex II (1.5 pt) + AAtrex (2 pt) fb	68	60	96	96	227 a	
	DiFlexx (8 oz) + Roundup PM3 (30 oz) + COC (1% v/v) + Class Act Ridion (1% v/v)						
14	Harness MAX (55 oz) + AAtrex (2 pt) fb	93	94	98	99	237 a	
	Laudis (3 oz) + DiFlexx (8 oz) + RU PM3 (30 oz) + MSO (1%) + Class Act Ridion (1%)						
15	TriVolt (12 oz) + AAtrex (2 pt) fb	74	71	97	98	226 a	
	DiFlexx (8 oz) + RU PM3 (30 oz) + Warrant (3 pt) + COC (1%) + Class Act Ridion (1%)						
16	Verdict (16 oz) fb	94	83	98	98	223 a	
	Armezon PRO (16 oz) + AAtrex (1 pt) + Roundup PM3 (15 oz) + COC (1% v/v) + AMS ^d						
17	Verdict (12 oz) + Callisto (3 oz) + AAtrex (1 pt) fb	94	90	96	97	240 a	
	Status (5 oz) + Roundup PM3 (30 oz) + COC (1% v/v) + AMS ^c						
18	Surtain (14 oz) fb	45	30	98	96	231 a	
	Status (5 oz) + Roundup PM3 (30 oz) + COC (1% v/v) + AMS ^c						
19	Surtain (14 oz) fb	38	20	97	97	232 a	
	Liberty ULTRA (24 oz) + Roundup PM3 (30 oz) + AAtrex (1 pt) + AMS (3 lb)						
20	Intrava DX (21 fl oz) + Moccasin II Plus (1.33 pt) fb	38	45	90	93	218 a	
	InterMoc (64 fl oz) + AMS (3 lb)						
21	Intrava DX (16 fl oz) + Motif (4.5 fl oz) fb	83	83	93	95	219 a	
	InterMoc (64 fl oz) + AMS (3 lb)						
22	Intrava DX (16 fl oz) + Coyote (2.4 qt) fb	88	88	94	98	232 a	
	InterMoc (64 fl oz) + AMS (3 lb)						
		LSD ($\alpha=0.10$)	12	10	4	8	
		p value	<.001	<.001	<.001	<.001	
			27				
			<0.001				

^aVisual control from 70-100% is illustrated on a color scale with green representing greater weed control values.

^bYield values with the same letter are not significantly different.

^cLiquid AMS (AMSOL) applied at 2.5% v/v

^dDry AMS (AMSOL/Dry) applied at 8.5 lb/100 gal

Corn Herbicide Showcase with Atrazine Janesville, WI 2024

Plot pictures taken on 5/28
22 days after the PRE application

The number in the upper right-hand corner is the average % giant ragweed control of 4 replications

22 days after PRE (5/28)
Untreated Check

0%



22 days after PRE (5/28)

PRE: 2.4 qt Storen + 1.5 pt AAtrex

89%



22 days after PRE (5/28)
PRE: 20 oz TriVolt + 2 pt AAtrex

79%



22 days after PRE (5/28)

PRE: 64 oz Harness MAX + 2 pt AAtrex

90%



22 days after PRE (5/28)

PRE: 1.3 qt Storen + 0.75 pt AAtrex

76%



22 days after PRE (5/28)

PRE: 1.5 qt Acuron

78%



22 days after PRE (5/28)

PRE: 1.5 qt Lumax EZ

64%



22 days after PRE (5/28)

PRE: 3 oz Callisto + 0.75 pt AAtrex

70%



22 days after PRE (5/28)
PRE: 2 pt Harness + 2 pt AAtrex

82%



22 days after PRE (5/28)

PRE: 1.5 pt TripleFlex II + 2 pt AAtrex

68%



22 days after PRE (5/28)

PRE: 55 oz Harness MAX + 2 pt AAtrex

93%



22 days after PRE (5/28)
PRE: 12 oz TriVolt + 2 pt AAtrex

74%



22 days after PRE (5/28)

PRE: 16 oz Verdict

94%



22 days after PRE (5/28)

PRE: 12 oz Verdict + 3 oz Callisto + 1 pt AAtrex

94%



22 days after PRE (5/28)

PRE: 14 oz Sustain

42%



22 days after PRE (5/28)

PRE: 21 oz Intrava DX + 1.33 pt Moccasin II Plus

38%



22 days after PRE (5/28)

PRE: 16 oz Intrava DX + 4.5 oz Motif

83%



22 days after PRE (5/28)

PRE: 16 oz Intrava DX + 2.4 qt Coyote

88%



Corn Herbicide Showcase with Atrazine Janesville, WI 2024

Plot pictures taken on 6/6

31 days after the PRE application

8 days after the EPOST application

The day of the POST application

The number in the upper right-hand corner is the average % giant ragweed control of 4 replications

31 days after PRE (6/6)

Untreated Check

0%



31 days after PRE (6/6)

PRE: 2.4 qt Storen + 1.5 pt AAtrex

89%



31 days after PRE (6/6)

PRE: 20 oz TriVolt + 2 pt AAtrex

82%



31 days after PRE (6/6)

PRE: 64 oz Harness MAX + 2 pt AAtrex

88%



8 days after EPOST (6/6)

96%

EPOST: 3.75 pt Acuron GT + 1 pt Aatrex + NIS + AMS



8 days after EPOST (6/6)

EPOST: 3.5 qt Priority MA + Roundup PM3 + NIS + AMS

98%



8 days after EPOST (6/6)

EPOST: 3.5 qt Priority S MA + Roundup PM3 + NIS + AMS

97%



31 days after PRE (6/6)

PRE: 1.3 qt Storen + 0.75 pt AAtrex

74%



31 days after PRE (6/6)
PRE: 1.5 qt Acuron

77%



31 days after PRE (6/6)
PRE: 1.5 qt Lumax EZ

66%



31 days after PRE (6/6)

PRE: 3 oz Callisto + 0.75 pt AAtrex

68%



31 days after PRE (6/6)

PRE: 2 pt Harness + 2 pt AAtrex

83%



31 days after PRE (6/6)

PRE: 1.5 pt TripleFlex II + 2 pt AAtrex

60%



31 days after PRE (6/6)

PRE: 55 oz Harness MAX + 2 pt AAtrex

94%



31 days after PRE (6/6)

PRE: 12 oz TriVolt + 2 pt AAtrex

71%



31 days after PRE (6/6)
PRE: 16 oz Verdict

83%



31 days after PRE (6/6)

PRE: 12 oz Verdict + 3 oz Callisto + 1 pt AAtrex

90%



31 days after PRE (6/6)
PRE: 14 oz Sustain

25%



31 days after PRE (6/6)

PRE: 21 oz Intrava DX + 1.33 pt Moccasin II Plus

45%



31 days after PRE (6/6)

PRE: 16 oz Intrava DX + 4.5 oz Motif

83%



31 days after PRE (6/6)

PRE: 16 oz Intrava DX + 2.4 qt Coyote

88%



Corn Herbicide Showcase with Atrazine Janesville, WI 2024

Plot pictures taken on 6/21

46 days after the PRE application

23 days after the EPOST application

15 days after the POST application

The number in the upper right-hand corner is the average % giant ragweed control of 4 replications

46 days after PRE (6/21)
Untreated Check

0%



46 days after PRE (6/21)

PRE: 2.4 qt Storen + 1.5 pt AAtrex

81%



46 days after PRE (6/21)
PRE: 20 oz TriVolt + 2 pt AAtrex

70%



46 days after PRE (6/21)

PRE: 64 oz Harness MAX + 2 pt AAtrex

75%



23 days after EPOST (6/21)

EPOST: 3.75 pt Acuron GT + 1 pt Aatrex + NIS + AMS

93%



23 days after EPOST (6/21)

EPOST: 3.5 qt Priority MA + Roundup PM3 + NIS + AMS

93%



23 days after EPOST (6/21)

EPOST: 3.5 qt Priority S MA + Roundup PM3 + NIS + AMS

94%



15 days after POST (6/21)

PRE: 1.3 qt Storen + 0.75 pt AAtrex *fb*

POST: 1.1 qt Storen + 0.75 pt Aatrex + 26 oz Roundup PM3 + AMS

96%



15 days after POST (6/21)

PRE: 1.5 qt Acuron *fb*

POST: 3.6 pt Halex GT + 0.75 pt Aatrex + NIS + AMS

95%



15 days after POST (6/21)

PRE: 1.5 qt Lumax EZ fb

POST: 3.75 pt Acuron GT + 0.75 pt Aatrex + NIS + AMS

96%



15 days after POST (6/21)

PRE: 3 oz Callisto + 0.75 pt AAtrex *fb*

POST: 3.75 pt Acuron GT + 0.75 pt Aatrex + NIS + AMS

96%



15 days after POST (6/21)

PRE: 2 pt Harness + 2 pt Aatrex *fb*

POST: 3 oz Laudis + 8 oz DiFlexx + 30 oz RU PM3 + MSO + Class Act Ridion

97%



15 days after POST (6/21)

PRE: 1.5 pt TripleFlex II + 2 pt Aatrex *fb*

POST: 8 oz DiFlexx + 30 oz Roundup PM3 + COC + Class Act Ridion

96%



15 days after POST (6/21)

PRE: 55 oz Harness MAX + 2 pt Aatrex *fb*

98%

POST: 3 oz Laudis + 8 oz DiFlexx + 30 oz RU PM3 + MSO + Class Act Ridion



15 days after POST (6/21)

PRE: 12 oz TriVolt + 2 pt Aatrex *fb*

POST: 8 oz DiFlexx + 30 oz RU PM3 + 3 pt Warrant + COC + Class Act Ridion

97%



15 days after POST (6/21)

PRE: 16 oz Verdict fb

98%

POST: 16 oz Armezon PRO + 1 pt Aatrex + 15 oz Roundup PM3 + COC + AMS



15 days after POST (6/21)

PRE: 12 oz Verdict + 3 oz Callisto + 1 pt Aatrex *fb*

POST: 5 oz Status + 30 oz Roundup PM3 + COC + AMS

96%



15 days after POST (6/21)

PRE: 14 oz Sustain fb

POST: 5 oz Status + 30 oz Roundup PM3 + COC + AMS

98%



15 days after POST (6/21)

PRE: 14 oz Surtain *fb*

POST: 24 oz Liberty ULTRA + 30 oz Roundup PM3 + 1 pt AAtrex + AMS

97%



15 days after POST (6/21)

PRE: 21 oz Intrava DX + 1.33 pt Moccasin II Plus *fb*

POST: 64 oz InterMoc + AMS

90%



15 days after POST (6/21)

PRE: 16 oz Intrava DX + 4.5 oz Motif fb

POST: 64 oz InterMoc + AMS

93%



15 days after POST (6/21)

PRE: 16 oz Intrava DX + 2.4 qt Coyote fb

POST: 64 oz InterMoc + AMS

94%

